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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application Number	10/579,670
Total Number of Pages in This Submission	8 (and 43 References)	Filing Date	February 1, 2007
		First Named Inventor	Hashimoto et al.
		Group Art Unit	1632
		Examiner Name	Unknown
		Attorney Docket Number	201487/1180

**ENCLOSURES (check all that apply)**

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Remarks

The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 14-1138 for the above identified docket number.

References 1-25

References 1-18

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Firm or Individual name	Tate L. Tischner Nixon Peabody LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603-1051 Telephone: (585) 263-1363 Fax: (585) 263-1600
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Date	July 10, 2007
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <small>( Not for submission under 37 CFR 1.99 )</small>	Application Number	10579670	
	Filing Date	2007-02-01	
	First Named Inventor	HASHIMOTO et al.	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	201487/1180	

#### U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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#### U.S.PATENT APPLICATION PUBLICATIONS

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	1	53-137198	JP		1978-11-30	SUZUKI et al.		<input checked="" type="checkbox"/>
	2	55-16203	JP	A	1980-02-04	SUZUKI et al.		<input checked="" type="checkbox"/>
	3	57-15696	JP	B2	1982-04-01	HIZUKA et al.		<input checked="" type="checkbox"/>

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	4	57-173745	JP	A	1982-10-26	SHIONO et al.		<input checked="" type="checkbox"/>
	5	57-54742	JP	B2	1982-11-19	SUZUKI et al.		<input checked="" type="checkbox"/>
	6	58-30537	JP	B2	1983-06-29	SUZUKI et al.		<input checked="" type="checkbox"/>
	7	58-36736	JP	B2	1983-08-11	KUBO et al.		<input checked="" type="checkbox"/>
	8	59-27255	JP	A	1984-02-13	SHIONO et al.		<input checked="" type="checkbox"/>
	9	59-133454	JP	A	1984-07-31	OGURA et al.		<input checked="" type="checkbox"/>
	10	61-7258	JP	B2	1986-03-05	HIKIMA et al.		<input checked="" type="checkbox"/>
	11	1-22898	JP	B2	1989-04-28	UEHARA et al.		<input checked="" type="checkbox"/>
	12	2-193059	JP	A	1990-07-30	SAKATA et al.		<input checked="" type="checkbox"/>
	13	5-23198	JP	A	1993-02-02	NUMATA et al.		<input checked="" type="checkbox"/>
	14	5-41999	JP	A	1993-02-23	SEKINE et al.		<input checked="" type="checkbox"/>

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	15	5-93692	JP	A	1993-04-16	KARUBE et al.	<input checked="" type="checkbox"/>
	16	5-137597	JP	A	1993-06-01	MAEDA et al.	<input checked="" type="checkbox"/>
	17	5-252994	JP	A	1993-10-05	NUMATA et al.	<input checked="" type="checkbox"/>
	18	6-41928	JP	B2	1994-06-01	KITAGAWA et al.	<input checked="" type="checkbox"/>
	19	7-167824	JP	A	1995-07-04	KARUBE et al.	<input checked="" type="checkbox"/>
	20	8-20401	JP	B2	1996-03-04	KARUBE et al.	<input checked="" type="checkbox"/>
	21	8-196295	JP	A	1996-08-06	ABEMATSU et al.	<input checked="" type="checkbox"/>
	22	8-211011	JP	A	1996-08-20	ABEMATSU et al.	<input checked="" type="checkbox"/>
	23	9-297105	JP	A	1997-11-18	SUDA et al.	<input checked="" type="checkbox"/>
	24	11-125600	JP	A	1999-05-11	KARUBE et al.	<input checked="" type="checkbox"/>
	25	19714219	DE	A1	1998-08-10	FRIEDRICH et al.	<input checked="" type="checkbox"/>

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**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	BURMOLLE et al., "Presence of N-Acyl Homoserine Lactones in Soil Detected by a Whole-Cell Biosensor and Flow Cytometry," <i>Microb. Ecol.</i> 45(3):226-236 (2003)	<input type="checkbox"/>
	2	CHAUDRI et al., "Response of a Rhizobium-Based Luminescence Biosensor to Zn and Cu in Soil Solutions from Sewage Sludge Treated Soils," <i>Soil Biol. Biochem.</i> 32:383-388 (2000)	<input type="checkbox"/>
	3	D'SOUZA, S.F., "Microbial Biosensors," <i>Biosens. Bioelectron.</i> 16:337-353 (2001)	<input type="checkbox"/>
	4	GU & CHANG, "Soil Biosensor for the Detection of PAH Toxicity Using an Immobilized Recombinant Bacterium and a Biosurfactant," <i>Biosens. Bioelectron.</i> 16:657-674 (2001)	<input type="checkbox"/>
	5	GUERRIERI et al., "A Disposable Amperometric Biosensor for Rapid Screening of Anticholinesterase Activity in Soil Extracts," <i>Analyst</i> 127(1):5-7 (2002)	<input type="checkbox"/>
	6	KARUBE, I., "Hybrid Biosensors for Clinical Analysis and Fermentation Control," <i>Methods Enzymol.</i> 137:131-138 (1988)	<input type="checkbox"/>
	7	KARUBE, I., "Microbial Sensor," <i>J. Biotechnol.</i> 15:255-266 (1990)	<input type="checkbox"/>
	8	KARUBE et al., "Microbiosensors," <i>J. Biotechnol.</i> 15:267-282 (1990)	<input type="checkbox"/>
	9	KHALIL et al., "A Comparison of Sole Carbon Source Utilization Patterns and Phospholipid Fatty Acid Profiles to Detect Changes in the Root Microflora of Hydroponically Grown Crops," <i>Can. J. Microbiol.</i> 47(4):302-308 (2001)	<input type="checkbox"/>

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10	MEYER et al., "Nitrification and Denitrification Near a Soil-Manure Interface Studied with a Nitrate-Nitrite Biosensor," Soil Sci. Soc. Am. J. 66:498-506 (2002)	<input type="checkbox"/>
11	MILLER et al., "Biological Sensor for Sucrose Availability: Relative Sensitivities of Various Reporter Genes," Appl. Environ. Microbiol. 67(3):1308-1317 (2001)	<input type="checkbox"/>
12	OWNLEY et al., "Identification and Manipulation of Soil Properties to Improve the Biological Control Performance of Phenazine-Producing <i>Pseudomonas fluorescens</i> ," Appl. Environ. Microbiol. 69(6):3333-3343 (2003)	<input type="checkbox"/>
13	RASMUSSEN et al., "Application of a mer-lux Biosensor for Estimating Bioavailable Mercury in Soil," Soil Biol. Biochem. 32:639-646 (2000)	<input type="checkbox"/>
14	SHRIVER-LAKE et al., "New Horizons: Explosive Detection in Soil Extracts with a Fiber-Optic Biosensor," Field Anal. Chem. Tech. 4(5):239-245 (2000)	<input type="checkbox"/>
15	TIBAZARWA et al., "A Microbial Biosensor to Predict Bioavailable Nickel in Soil and Its Transfer to Plants," Environ. Pollut. 113:19-26 (2001)	<input type="checkbox"/>
16	WINDING et al., "Viability of Indigenous Soil Bacteria Assayed by Respiratory Activity and Growth," Appl. Environ. Microbiol. 60(8):2869-2875 (1994)	<input type="checkbox"/>
17	DROBNIKOVA et al., "Use of Oxygen Electrode for Measuring Respiration in a Soil Suspension," Folia Microbiologica. 16(6):511 (1971)	<input type="checkbox"/>
18	Supplementary European Search Report dated May 4, 2007.	<input type="checkbox"/>

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**EXAMINER SIGNATURE**

Examiner Signature	/Albert M Navarro/	Date Considered	06/24/2009
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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- See attached certification statement.  
 Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.  
 None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	July 10, 2007
Name/Print	Tate L. Tischner	Registration Number	56,048

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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